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VOLCHEK, IZ

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CIA-RDP86-00513R001860420010-9"

VOLCHEK, I.Z.

USSR/ Chemistry - Thermostability

Card 1/1 Pub. 104 - 9/12

Authors : Volchek, I.Z.

Title : Thermostability of the glass and mineral filament

Periodical : Stek. i ker. 5, 27-28, May 1954

Abstract : A review is presented of the "GOST 4640-49 and 4640-52" standards on thermal stability of the glass and mineral filaments. Tables giving the chemical composition and the temperature index of the glass and filaments are presented.

Institution: .....

Submitted: .....

VOLCHEK, I.Z.

Journal of Applied Chemistry  
June 1954  
Industrial Inorganic Chemistry

Effect of phase characteristics of high-alumina slags on their hydraulic properties. I. Z. Volchek (*Dokl. Akad. Nauk SSSR*, 1953, 90, 437-440).—The ultimate compressive strength, after various periods of hardening, of wetted powders of  $2\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$  slags, with 47.1% and 43.11% CaO, 46.46 and 50.65% Al<sub>2</sub>O<sub>3</sub>, 6.93 and 6.68% SiO<sub>2</sub>, respectively (I and II) was highest for 59% vitreous samples of I, whilst it decreased regularly with increasing glass content for II. The figures for all samples of II were 50-100% greater than the corresponding ones for I. R. C. MURRAY.

U S S R

Temperature stability of glass and mineral fibres. I. Z. Volchek  
(Glass & Ceramics, Moscow, 1951, 11, No. 5, 27). The temp. stability was determined by measuring the temp. at which deformation ceased to be recoverable. Specimens of five types of fibre were tested by uniformly heating them under a load of 20 g./sq. cm. The beginning of subsidence was shown on a gauge reading to 0.01 mm. The average diameter of the glass fibre was 15  $\mu$ . and that of the other four types 6.5-8.3  $\mu$ . The temp. stability of glass wool ( $\text{SiO}_2$  72,  $\text{Al}_2\text{O}_3$ , 4.5,  $\text{CaO}$ , 7.3,  $\text{MgO}$  3, and  $\text{Na}_2\text{O}$  15%) was 330° and that of a fibre containing  $\text{SiO}_2$  6.68,  $\text{Al}_2\text{O}_3$ , 50.63, and  $\text{CaO}$  43.11% was 900°. The remaining fibre types consisted of blast-furnace slags, and dolomite-clay mask (compositions are given). The methods of testing described are recommended for standardisation.

Brit. Cntr. for Rds. Ass. ABSTR. (R.B.C.)

VOLCHEK, I.Z.

14

2671. Temperature stability of glass and mineral fibres—1. Z. VOLCHEK (*Glass & Ceramics*, MOSCOW, 11, NO. 3, 27, 1954). By the term "temperature stability" of mineral (glass) fibre is understood the capacity of the fibre to preserve its physical structure when heated. The temperature stability can be determined by measuring the temperature at which deformation ceases to be recoverable. Specimens of 5 types of fibre were tested by uniformly heating them under a load of 20 g/cm<sup>2</sup>. The point of the beginning of a subsidence was shown on a gauge reading to 0.01 mm. The average diameter of the glass fibre was 15 $\mu$  and that of the other 4 types 6.5–8.3 $\mu$ . The results are tabulated. The glass wool contained (%): SiO<sub>2</sub>, 72; Al<sub>2</sub>O<sub>3</sub>, 1.5; CaO, 7.5; MgO, 3; and Na<sub>2</sub>O, 15; its temperature stability was 330°C. That of a fibre (SiO<sub>2</sub>, 6.68; Al<sub>2</sub>O<sub>3</sub>, 50.65; CaO, 43.11) was 900°C. The remaining fibre types mentioned consisted of blast-furnace slags, and dolomitic-clay marl (compositions are given). The methods of testing described are recommended for standardization. (2 tables.)

USSR.

Hydraulic properties of high-alumina slags as a function of their phase characteristics. I. Z. VOLCHIK. *Doklady Akad. Nauk S.S.R.*, 90 [3] 437-40 (1953). Tests were conducted with artificial mixtures situated in the fields of stability of  $5\text{CaO}\cdot 3\text{Al}_2\text{O}_5$ ,  $(12\text{CaO}\cdot 7\text{Al}_2\text{O}_5)$  and  $\text{CaO}\cdot \text{Al}_2\text{O}_5$  of the system  $\text{CaO}\cdot \text{Al}_2\text{O}_5\cdot \text{SiO}_2$ . Different phase characteristics were obtained by cooling the melts slowly and rapidly. The vitrified slags situated in the fields of stability of  $5\text{CaO}\cdot 3\text{Al}_2\text{O}_5$  and  $\text{CaO}\cdot \text{Al}_2\text{O}_5$  exhibit considerably high hydraulic activity. The hydraulic activity of the vitrified slags was less than that of the crystallized slags. The vitrified slag situated in the field of stability of  $\text{CaO}\cdot \text{Al}_2\text{O}_5$  was less than for that in the field of stability of  $5\text{CaO}\cdot 3\text{Al}_2\text{O}_5$ . I.Z.K.

GORAYAYNOV, K. YE.; VOLCHEK, I. Z.

Mineral Wool

Hard heat-insulating material made of mineral wool. Biul. stroi. tekhn. 10, No. 6, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SHARPENAK, A.E.; MIKHEYEVA, L.I.; NIKOLAYEVA, N.V.; SLOVOKHOTNOVA, I.A.;  
BOBIK, G.S.; ALAYEVA, V.N.; STUPNIKOVA, G.A.; GUSAKOVA, I.A.;  
GUSARSKAYA, V.V.; VOLCHEK, K.Ye.; SMIRNOVA, V.H.; PANOVA, V.V.;  
KHERSONSKAYA, F.M.;

Connection between enamel, the dentine, and the organism as a  
whole. Vrach.delo no.2:203-205 F '59. (MIRA 12:6)

1. Kafedra biokhimii (zav. - prof.A.E.Sharpenak) Moskovskogo  
meditsinskogo stomatologicheskogo instituta.  
(TEETH)

L 29901-66 EWT(m)/EWP(e) WH/WW  
ACC NR: AR6000269

SOURCE CODE: UR/0081/65/000/014/M012/M012

AUTHOR: Matveyev, M. A.; Mazo, E. E.; Volchek, L. K.

35  
B

TITLE: Effect of additives on the crystallization of boronless,  
alkaliless strontium containing glass

SOURCE: Ref. zh. Khimiya, Abs. 14M125

REF SOURCE: Sb. Stekloobrazn. sostoyaniye. T. 3. Vyp. 4. Minsk, 1964,  
85-88

TOPIC TAGS: glass, fiber glass, crystallization property, strontium

ABSTRACT: The crystallization properties of the SrO - CaO - Al<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> system glass improves with the addition of MgO, BaO and MgO, BaO combined. At the same time the temperature of the crystallization upper limit lowers and the speed of crystallization growth decreases. The addition of B<sub>2</sub>O<sub>3</sub> in a small amount (up to 4 mol%) improves the melting properties but impairs its crystallizing properties. P<sub>2</sub>O<sub>5</sub> impairs both the melting as well the crystallizing properties of strontium glass. A No. 14 composition was developed which has optimal crystallization properties in accordance with requirements for glasses used in making glass fiber. I.M.

SUB CODE: 11,07 SUBM DATE: 25Jul65

Card 1/1 ('l

L 12892-66 ENP(e)/EWT(m)/EWP(b) WH

ACC NR: AT6000482

SOURCE CODE: UR/0000/65/000/000/0144/0146

AUTHOR: Matveyev, M. A.; Mazo, Zh. E.; Volkodatov, A. F.; Volchek, L. K.

38

B+1

ORG: None

TITLE: Effect of aluminum oxide on the properties of glasses of certain alkali-free systems

SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya. Leningrad, Izd-vo Nauka, 1965, 144-146

TOPIC TAGS: glass property, silicate glass, alumina, coordination chemistry

ABSTRACT: A study of the properties of glasses in the systems  $\text{CaO-SrO-Al}_2\text{O}_3-\text{SiO}_2$  and  $\text{MnO-CaO-SrO-Al}_2\text{O}_3-\text{SiO}_2$  showed that the composition-property curves have an inflection point at a certain content of  $\text{Al}_2\text{O}_3$ . Glass of composition corresponding to this inflection point has many valuable properties (water resistance, high elastic modulus<sup>E</sup>, fast crystal growth rate). Anomalous effects of  $\text{Al}_2\text{O}_3$  on glass properties were also observed in the systems  $\text{MgO-Al}_2\text{O}_3-\text{SiO}_2$  and  $\text{SrO-Al}_2\text{O}_3-\text{SiO}_2$ . The role of  $\text{Al}_2\text{O}_3$  is a dual one, since it improves the properties up to a certain content, then lowers them. This behavior is attributed to a change in the coordination of  $\text{Al}^{3+}$  in alkali-free vitreous systems as their basicity increases, and the corresponding structural interpretation is given to account for changes in crystallizing tendency, chemical stability, and elastic modulus. Analysis of changes in

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L 12892-66

ACC NR: AT6000482

the molar volume with the composition confirmed the hypothesis that the coordination number of aluminum ion changes from four to six (its structure changes from tetrahedral to octahedral). Orig. art. has: 3 figures.

SUB CODE: 07, 11 / SUBM DATE: 22May65 / ORIG REF: 007

Card 2/2

HW

MATVEYEV, M. A.; MAZO, E. E.; VOLCHEK, L. K.; ORLOVA, V. M.; VOLKODATOV, A. F.

"Effect of aluminum oxide on properties of glasses of some non-alkaline  
silicate systems."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,  
16-21 Mar 64.

VOLCHEK, L.K.

34410

S/081/62/000/002/070/10

B150/B101

15.2125

AUTHORS: Bezborodov, M. A., Mazo, E. E., Iodo, S. S., Orlova V. M.,  
Volchek, L. K., Volkodatov, A. F.

TITLE: Synthesis of glasses for glass fiber in the system SrCaAlSiO

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 378; abstract  
2K241 (Dokl. AN BSSR, v. 5, no. 7, 1961, 304 - 307)

TEXT: The field of vitrification was studied and developed in the system SrCaAlSiO considered as a triangle in the angles of which are situated  $Al_2O_3$ ,  $SiO_2$  and  $SrO + CaO$  in definite proportions. Three variants of the system were investigated with the ratios  $CaO:SrO$  (in mole %) equalling 10; 1.23, and 1.85. It was established that glasses of the SrCaAlSiO system are suitable for the production of glass fiber. [Abstracter's note: Complete translation.]

Card 1/1

15.2620  
AUTHORS:

Bezborodov, N.A., Novtunenko, G.I., Volchek, L.A.,  
Orlova, V.W. and Volkadatov, A.F.

31,960  
5/13/60/CCC/001/004/005  
5287/0303

TITLE:

The effect of strontium and manganese on certain properties of glass

SOURCE:

Akademiya nauk BSSR, Minsk. Institut obshchei i neorganicheskoy khimii. Sbornik nauchnykh rabot. no. 1,  
Minsk, 1960, 51 - 58

TEXT:

The authors studied the effect of Sr and Mg on glasses not containing alkalis or borates, suitable for glass-fiber as well as the effect of large quantities of Fe. The founders and crystallization properties, chemical stability and processing characteristics of the system CaO - SrO - MnO<sub>2</sub> - Fe<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> were investigated and 102 types of glasses synthesized; the composition of these glasses varied within the following limits: SrO 0 - 45 %, CaO 45 - 0 %, MnO<sub>2</sub> 14.5 - 0 %, Fe<sub>2</sub>O<sub>3</sub> 0 - 24.5 % and SiO<sub>2</sub> 40.5 %. During experi-

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3/7/86/CSC/001/004/005  
E287/503

The effect of strontium and ...

ments on the founding properties of glass the authors used sand of the following composition:  $\text{SiO}_2$  : 98.17 %;  $\text{Al}_2\text{O}_3$  : 0.55 %;  $\text{CaO}$  : 0.45 %;  $\text{MgO}$  : 0.65 %;  $\text{Fe}_2\text{O}_3$  : 0.07 %;  $\text{SO}_3$  : 0.06 %; alkali : 0.02 %. The remaining components of the mixture were added as 'chemically pure' substances. The glasses were processed at 1440°C. Compositions containing > 25 %  $\text{SrO}$  and < 20 %  $\text{CaO}$  showed founding characteristics; these were affected adversely on increasing the  $\text{CaO}$  content (and correspondingly decreasing the  $\text{SrO}$  content) in the glass. Crystallization properties improved on decreasing the  $\text{SrO}$  content and simultaneously increasing the  $\text{CaO}$ . This same improvement was observed, but to a lesser degree, when increasing the  $\text{Fe}_2\text{O}_3$  content at the expense of  $\text{MnO}_2$ . Chemical stability of the glasses was tested by determining the loss in weight of the initial powder sample on treatment with water, 0.1 or 2%  $\text{Ba}_2\text{CO}_3$ , 0.02 or 2%  $\text{NaOH}$ , 0.02 or 2%  $\text{H}_2\text{SO}_4$ . All samples showed great stability to the aforementioned solutions except to  $\text{H}_2\text{SO}_4$ , where the stability increased on lowering the  $\text{SrO}$  content (and conversely).

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S/713/60/000/001/004/005  
D287/D305

The effect of strontium and ...

pondingly decreasing the CaO content) in the glass. Tests on the drawing of glass fibers were carried out at 1420° C and it was found that compositions with a maximum content of SrO and MnO<sub>2</sub> and a minimum content of CaO and Fe<sub>2</sub>O<sub>3</sub> showed the best drawing characteristics. The tensile strength of fibers decreased with increased Fe<sub>2</sub>O<sub>3</sub> and decreased MnO<sub>2</sub> contents. There are 5 figures, 1 table and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: Chilas, Dimbleby, Winks and Turner, Journ. Soc. Glass Techn. no. 56, p. 172, (1931); Bumpei Ioshiki: The Glass Industry, v. 35, no. 6 (1952) ✓

Card 3/5

L 05282-67 Ent(m)/EWP(e) WH/QD  
ACC NR: AT6027137

SOURCE CODE: UR/0000/65/000/000/0063/0067

AUTHOR: Matveyev, M. A.; Mazo, E. E.; Volkodatov, A. F.; Volchek, L. K.

ORG: none

TITLE: Effect of ionic radii  $M^{2+}$  on the properties of glasses

SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and oxides). Moscow, Izd-vo Nauka, 1965, 63-67

TOPIC TAGS: beryllium compound, silicate glass, glass property

ABSTRACT: The systems  $RO-Al_2O_3-SiO_2$ , where  $RO = SrO$ ,  $MgO$  or  $BeO$ , were studied in the following concentration range of the components (mole %):  $SiO_2$ , 45-60;  $Al_2O_3$ , 0-20;  $RO$ , 20-55. The temperature of the upper crystallization limit, chemical stability, and elastic modulus were determined in glasses of the  $SrO-Al_2O_3-SiO_2$ ,  $MgO-Al_2O_3-SiO_2$ , and  $MgO-BeO-Al_2O_3-SiO_2$  systems. Comparison of the results shows that these properties change in regular fashion with the cationic radius of the divalent oxide. As the latter decreases, the temperature at which the glasses are melted and their crystallizability, chemical stability and elastic modulus increase. The  $Be^{2+}$  ion has the strongest force field and the smallest difference of force fields with silicon (0.7) as compared to  $Mg^{2+}$  (1.12) and  $Sr^{2+}$  (1.30). This explains the marked crystallizability of beryllium glasses observed in this study, and also the higher  $T_g$  of magnesium glasses

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ACC NR: AT6027137

as compared to strontium glasses. As the ionic radii decrease and the force fields of  $K^{2+}$  increase, the influence of  $K^{2+}$  on the packing and rigidity of the glass structure grows, causing a rise in the fusion temperature and in the elastic modulus. The decrease in the cationic radius also increases the chemical stability, since the size of the cations washed out of the glass determines the porosity, and hence, the protective effect of the film formed on the glass during reactions with corrosive agents. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: 13Feb64/ ORIG REF: 008/ OTH REF: 001

Card 2/2 gl

VOLCHEK, L.S.

RUBTSOV, V.K.; VAYNTSVAYG, S.K.; VOLCHEK, L.S.

Standard storages for oilseeds. Masl.-zhir. prom. 22 no.7:  
13-14 '56. (MIRA 9:12)

1. Giproshir.  
(Oilseeds--Storage)

VOLCHEK, N., nauchnyy sotrudnik; LAYNER, S., nauchnyy sotrudnik;  
LIMONOV, E., nauchnyy sotrudnik

Dry-cargo liner fleet of capitalist countries of Europe. Mor.  
flot 22 no.4:38-39 Ap '62. (MIRA 15:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota.  
(Europe--Freighters)

LAYNER, S.V., kand.tekhn.nauk; VOLCHEK, N.Z.; LIMONOV, E.L.

Composition and principle technical and operational  
characteristics of dry cargo ships sailing regular ocean lines  
and belonging to capitalist countries of Europe. Trudy TSNIIMF  
no.43:64-80 '62. (MIRA 16:2)  
(Ocean liners) (Freighters)

VOLCHEK, Ol'gerd [Wolczek, Olgierd]; ERYNSKIY, Ye.S. [translator];  
KOGAN-BELETSKIY, G.I., kand. tekhn. nauk, nauchn. red.;  
ZEL'MANOVA, L.A., red.

[Secrets wrung from heaven. Translated from the Polish]  
Tainy pokhishchennye u neba. Leningrad, Gidrometeoizdat,  
(MIRA 18:8)  
1965. 167 p.

VOLCHEK, P.A.

Mechanization of loading and unloading operations on side tracks.  
Mekh. i avtom. proizv. 16 no.6:41-42 Je '62. (MIRA 15:6)

1. Zamestitel' nachal'nika Upravleniya transporta sovnarkhoza  
BSSR.  
(Loading and unloading--Technological innovations)

IVYANSKIY, G.B., kand.tekhn.nauk; ROZENFEL'D, S.M., inzh.; BELEVTSOV, V.M.,  
inzh.; SATS, M.N., inzh.; FADEYEV, Yu.N., inzh.; VOLCHIK, V.A.,  
tekhnik; UTEHKOV, V.F., kand.tekhn.nauk; NAUMOV, A.A., tekhnik;  
GORDEYEV, P.A., red.; KORNEYEVA, V.N., tekhnred.

[Album of drawings of equipment for assembling precast reinforced  
concrete construction elements] Al'bom chertezhei oborudovaniia  
dlia montazha sbornykh zhelezobetonnykh konstruktsii. Moskva, Gos.  
izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. 170 p.  
(MIRA 12:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii,  
mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. 2. Nauchnyye  
sotrudniki laboratori betonnykh i zhelezobetonnykh rabot Nauchno-issledo-  
vatel'skogo institut'a organizatsii, mekhanizatsii i tekhn.pomoshchi stroi-  
tel'stva (for all except Gordeyev, Korneyeva).

(Reinforced concrete construction--Tables, calculations; etc.)

KLUSHANTSEV, B.V., inzh.; VOLCHEK, V.I., inzh.

Some trends in the construction of modern foreign jawbreakers.  
Stroi. i dor. mash. 10 no.8-28-31 Ag '65. (MIRA 18:9)

VODOP'YANOV, I.L., inzh.; VOLCHEK, V.I., inzh.; FEDOROV, M.T., inzh.  
Reliability of jaw-type crushing machines. Stroi. i dor. mash. 10  
no.10:30-31 0 '65. (MIRA 18:10)

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VOLCHEK, V.I., inzh.; KOSAREV, A.I., inzh.; STREL'TSOV, V.A., inzh.

Percussion-action centrifugal crushers and how they compare  
with rotary machines. Stroi. i dor. mach. 9 no.9:30-33 S '64.  
(MIRA 17:11)

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CIA-RDP86-00513R001860420010-9"

KARAVANOV, A.G., prof.; VOLCHEK, V.M.

Pulmonary hamartomas. Khirurgiia 39 no.8:42-43 Ag '63.  
(MIRA 17:6)

1. Iz chirurgicheskogo otdeleniya Kalininskoy oblastnoy  
bol'nitsy (glavnnyy vrach - zasluzhennyy vrach RSFSR A.A. Sokolov).

KARAVANOV, A.G., prof.; VOLCHEK, V.M.

Immediate and remote results of the Petrovskii method of  
esophagoplasty in cardiospasm. Khirurgika 39 no.6 18-20  
Je '63. (MIRA 17:5)

1. Iz khirurgicheskogo otdeleniya Kalininakoy chislennoy bol'niitsy  
(glavnyy vrach - zasluzhennyy vrach RSFSR A.A. Sokolov).

VOLCHEK, V.M.

Repeated surgery in a case of pulmonary sarcoma. Grud. khir. 3  
no.2:104-105 '61. (MIRA 14:4)  
(LUNGS—TUMORS)

VOLCHEK, V.M.

Two cases of obstructive abscesses of the lungs caused by the  
prolonged presence of a spike of grain. Nov.khir.arkh. no.2:104  
Mr-Ap '58 (MIRA 11:6)

1. Kafedra khirurgii Kaliniskogo meditsinskogo instituta.  
(LUNGS--FOREIGN BODIES)

KARAVANOV, A.G.; VOLCHEK, V.M.

Further observations on the use of the UKL-60 apparatus. Trudy  
NIEKHAI no.5:36-38 '61. (MIRA 15:8)

1. Iz kafedry fakul'tetskoy khirurgii Kalininskogo meditsinskogo  
instituta. (LUNGS--SURGERY) (SUTURES)

KARAVANOV, A.G., prof.; VOLCHEK, V.M.; ZAGORODNYAYA, V.G.

Celomic cysts of the pericardium. Khirurgiia no.9:44-48 '62.  
(MIRA 15:10)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. A.G. Karavanov) Kalininskogo meditsinskogo instituta na baze Oblastnoy klinicheskoy bol'nitsy (glavnnyy vrach - zasluzhennyy vrach RSFSR A.A.Sokolov).

(CYSTS) (PERICARDIUM-TUMORS)

KARAVANOV, A.G.; POPOV, L.N.; VOLCHEK, V.M.

Diagnosis and excision of calculi in the pancreas. Kaz. med. zhur.  
no.6:58-59 N-D '61. (MIA 15:2)

1. Kafedra fakultetskoy khirurgii (zav. - prof. A.G.Karavanov)  
Kalininskogo meditsinskogo instituta i Kalininskaya oblastnaya  
bol'ница (glavnnyy vrach - A.A.Sokolov).  
(PANCREAS SURGERY) (CALCULI)

VOLCHEK, V.S.

Approximate determination of the linear dimensions of poorly  
conducting bodies by the middle gradient method. Vop. razved.  
geofiz. no.3:45-51 '64. (MIRA 18:2)

VOLCHEK, Ya. A.

VOLCHEK, Ya. A., inzhener; MOROZOV, V.M., inzhener.

The D-353 multiple-bucket loader. Stroili dor.mashinostr. 2  
no.8:12 Ag '57. (MLRA 10:9)  
(Road machinery)

VOLCHEK, Ya.A.; LOZHECHNIKOV, Ye.B.; BERNSHTEYN, M.D.; BAZANOV, A.F.,  
kand. tekhn. nauk, retsenzent; OTDEL'NOV, P.V., red. izd-va;  
GORDEYEVA, L.P., tekhn. red.

[Automotive loaders] Samokhodnye pogruzchiki. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1963. 242 p.  
(MIRA 16:6)

(Loading and unloading--Equipment and supplies)

VOLCHEK, Ya.L., inzh. (Rostov-na-Donu); SMIRNOV, I.T., inzh. (Rostov-na-  
Donu)

Planning of operations on railroads under the new conditions.  
Zhel. dor. transp. 45 no.11:60-64 N '63. (MIRA 16:12)

1. Nachal'nik sluzhby dvizheniya Severo-Kavkazskoy dorogi (for  
Volchek). 2. Zamestitel' nachal'nika operativno-rasporyaditel'-  
nogo otdela sluzhby dvizheniya Severo-Kavkazskoy dorogi (for  
Smirnov).

VOLCHEK, Ya. L. (Ordzhonikidze); BELOGUROV, A.P. (Ordzhonikidze); POPOV, N.N.  
(Ordzhonikidze)

Experience in constructing and operating dispatcher interlocking.  
Zhel. dor. transp. 41 no.4:60-65 Ap '59. (MIRA 12:6)

1.Glavnyy inzhener Ordzhonikidzevskoy dorogi (for Volchek). 2. Glavnyy inzhener sluzhby signalizatsii i svyazi Ordzhonikidzevskoy dorogi (for Belogurov). 3.Nachal'nik tekhnicheskogo otdela sluzhby dvizheniya Ordzhonikidzevskoy dorogi (for Popov).

(Railroads—Train dispatching)

(Railroads—Signalizing—Interlocking systems)

VOLCHEK, Ya. L. (Rostov-na-Donu); POKAVKIN, V. A., kand. tekhn. nauk  
(Rostov-na-Donu)

New developments in the organization of car flows, Zhel. dor.  
transp. 45 no.1:25-29 Ja '63. (MIRA 16:4)

1. Nachal'nik sluzhby dvizheniya Severo-Kavkazskoy dorogi  
(for Volchek).

(Railroads—Making up trains)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420010-9

VOLCHENKO, V. P.; VOLCHENKO, Y. S.

A method for the solution of differential equations using an electronic digital computer. Publ. Inst. of Mathematics No. 9, 582-600. 1961.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420010-9"

VOLCHENKO, A.V.; MAZYUKOV, A.S.; PARFENOVA, T.V.; PONOMARENKO, G.Ya.; PISKUNOVA, Ye.S.; STUKANOV, Ye.N.; YARMAL', A.I.; KHOLODOV, V.G., red.

[The Donets Basin and the Kuznetsk Basin; collection of documents on the creative relations between the miners of Donets and the Kuznetsk coal basins] Donbass-Kuzbass; sbornik dokumentov o tvorcheskikh sviaziakh gorniakov Donetskogo i Kuznetskogo ugol'nykh bassseinov. Donets, Izd-vo "Donbass," 1964. 148 p. (IFI A 18:2)

VOLCHENKO, Fedosiy Romanovich; BOBYLEVA, L.V., red.; YEROKHINA,  
L.I., tekhn. red.

[A communist labor enterprise] Predpriyatiye kommunisticheskogo truda. Moskva, Ekonomika, 1964. 77 p.  
(MIRA 17:1)

(Socialist competition)  
(Industrial management)

VOLCHENKO, Feodosiy Romanovich; MEKLER, Mark Borisovich; VOLOSHCHENKO,  
Z.N., red.; ZELENKOVA, Ye.Ye., tekhn. red.

[Inventors and efficiency experts of Dnepropetrovsk Province]  
Izobretateli i ratsionalizatory stroek Dnepropetrovshchiny.  
Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 40 p.  
(MIRA 15:3)  
(Dnepropetrovsk Province--Technological innovations)  
(Inventions)

VOLCHENKO, I.O.; SHVEYSKIY, Ya.O.; TYRYKIN, A.I.

Enclosure for thawing frozen loads. Koks i khim. no.5:16-18  
'56. (Thawing) (Waste heat) (Sugar beets) (MIRA 9:10)

VOLCHENKO, K.I.

Changes of intrarenal arteries and of the renal glomeruli in  
congenital affections of the "Blue" type in children. Arkh.pat.  
27 no.7:60-61 '65. (MIRA 18.8)

1. Kafedra patologicheskoy anatomii (zav. - prof. I.I.Dorokhov)  
Rostovskogo-na-Donu meditsinskogo instituta.

VOLCHENKO, K.L., (Rostov-na-Donu)

Morphogenesis of endocardial fibroelastosis in children. *Arkh. pat.*  
25 no.11:76-81 '63. (MIRA 17:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.I.Dorokhov)  
Rostovskogo-na-Donu meditsinskogo instituta.

YERMOLOV, V.I.; BATYREVA, A.A.; VOLCHENKO, K.L.

Effect of cortisone on the course of experimental tubo-meningitis in puppies. Probl. tub. no.8:95-98:62. (MIRA 16:9)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo instituta akusherstva i pediatrii (dir. - kand.med.nauk F.S. Baranovskaya, nauchnyy rukovoditel' - doktor med.nauk T.V. Loverdo) i kafedry mikrobiologii (zav. - prof. A.A.Kashayeva), kafedry patologicheskoy anatomii Rostovskogo meditsinskogo instituta (zav. - prof. Sh.I.Krinitziy [deceased]).

VOLCHENKO, Lyubov'; SIL'VANOVICH, Mariya

Glorious women-workers. Zashch. rast. ot vred. i bol. 7 no.3:  
2-3 Mr '62. (MIRA 15:11)  
(White Russia--Women as agriculturists)

VOLCHENKO, M.

Expand preparations for the all-Union public inspection of clubs.  
Sov. profsoiuzy 17 no. 127 F '61. (MIRA 14:2)

1. Zaveduyushchiy sektorom kul'turno-massovogo otdela Vsesoyuznogo  
tsentral'nogo soveta profsoyuzov.  
(Community centers)

VASIL'TSOV, V.D.; VOLODARSKIY, L.M.; VOLCHENKO, M.Ya.; GALETSKAYA,  
R.A.; IROV, N.I.; KARINYA, L.F.; KONOVALOV, Ye.A.;  
MATVIYEVSKAYA, E.D.; PETRESKU, E.I.; RUDAKOV, Ye.V.;  
SAYFULINA, L.M.; SKVORTSOVA, A.M.; SOKOLOVA, N.M.; SOTNIKOVA,  
I.A.; STOLPOV, N.D.; SURKO, Yu.V.; TEN, V.A.; TRIGUHENKO,  
M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.;  
RYABUSHKIN, T.V., doktor ekon. nauk, otv. red.; ALAMPIYEV,  
P.M., red.; PAK, G.V., red.; GERASIMOVA, D., tekhn.red.

[Economy of socialist countries, 1960-1962] Ekonomika stran  
sotsializma, 1960-1962gg. Moskva, Izd-vo "Ekonomika," 1964.  
(MIRA 16:12)

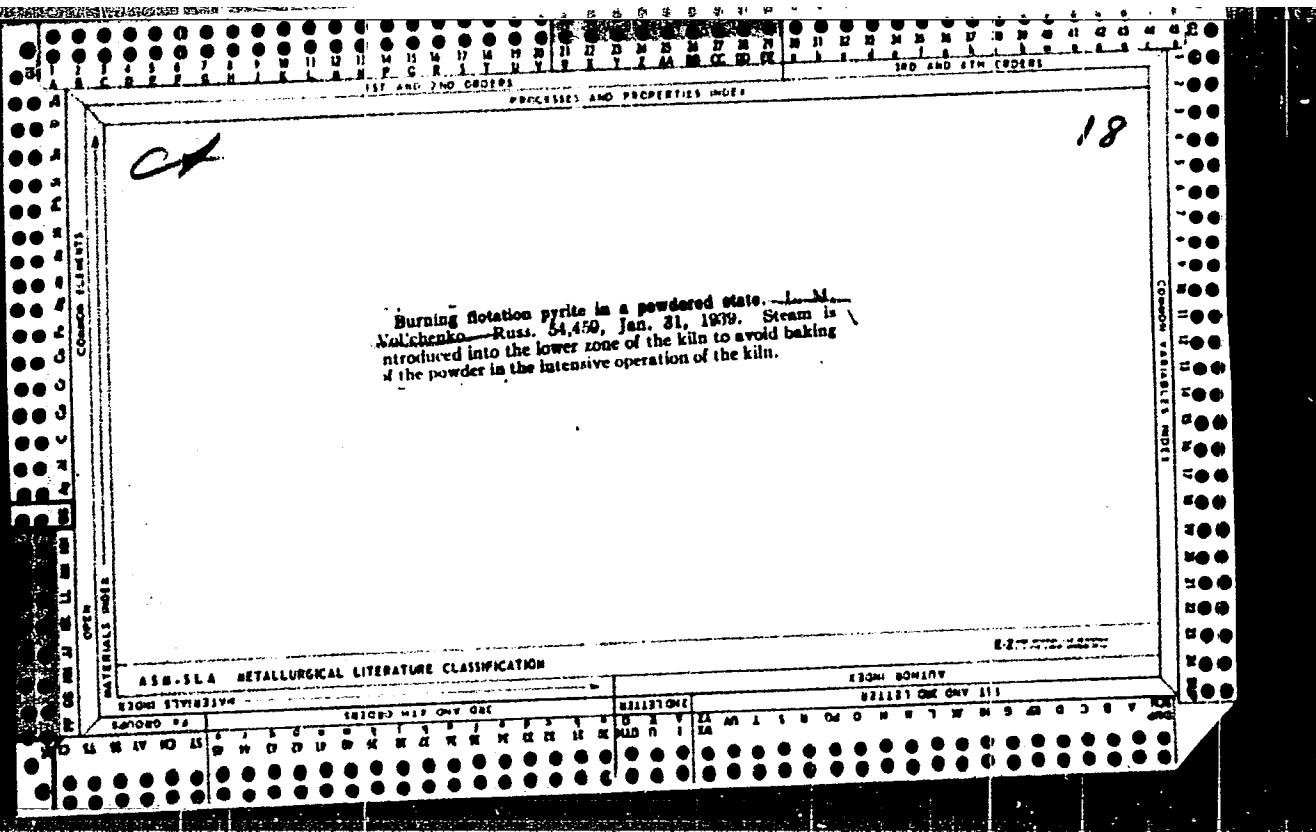
261 p.

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsiali-  
sticheskoy sistemy.

(Communist countries--Economic conditions)

VASIL'TSOV, V.D.; VOLCHENKO, M.Ya.; GERTSOVICH, G.B., kand.ekon. nauk;  
ZHARKOV, Ye.I.; KONOVALOV, Ye.A., kand. ekon. nauk; MATVIYEVSKAYA,  
E.D.; OLEYNIK, I.P., kand. ekon. nauk; RAYEVSKAYA, E.S.;  
SKVORTSOVA, A.I.; SOKOLOVA, N.V.; SOTNIKOVA, I.A.; TANDIT, V.S.;  
TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.;  
STOROZHEV, V.I., kand. istor. nauk, red.; LEPNIKOVA, Ye., red.;  
SMIRNOV, G., tekhn. red.

[Economy of the people's democracies in figures for 1960] Ekono-  
mika stran sotsialisticheskogo lageria v tsifrah 1960 g. Pod  
red. G.B.Gertsovicha, I.P.Oleinika, V.I.Storozheva. Moskva, Izd-  
vo sotsial'no-ekon. lit-ry, 1961. 238 p. (MIRA 15:4)  
(Communist countries--Economic conditions)



MASHUKOV, V.I.; BULANOV, G.M.; NOVIKOV, A.K.; VOLCHENKO, N.G.

Localizing shock air waves during large-scale blasting.

Met. i gornorud. prom. no.6:51-52 N.D '65.

(MIRA 18:12)

MASHUKOV, V.I., gornyy inzh.; NOVIKOV, A.K., gornyy inzh.; VOLCHENKO,  
N.G., gornyy inzh.

Using the KZDSh-58 pyrotechnical relay at the Odra-Bash Mine.  
Gor. zhur. no.9-70 S '64.

(MTR4 17-12)

1. Institut VostNIIGRI, Novokuznetsk.

VOLCHENKO, O.

Advantages of the consolidation of lunchrooms. Obshchestv. pit.  
no. 4:22-24 Ap '58. (MIRA 11:4)

1. Direktor Nikolayevskogo tresta stolovykh i restoranov.  
(Nikolayevsk--Employee lunchrooms, cafeterias, etc.)

S/074/62/031/003/002/002  
B117/B101

AUTHORS: Chernaya, V. V., and Vol'chenko, R. L.

TITLE: Ways of increasing frost resistance of polymers

PERIODICAL: Uspekhi khimii, v. 31, no. 3, 1962, 336-350

TEXT: This is a survey on progress made in the development of methods for increasing frost resistance of polymers. The possibilities of maintaining the utilizability of polymers even at low temperatures were studied. The studies were directed to lower the vitrification temperature of polymers and to reduce their crystallizability. In a summarizing statement it is pointed out that there exist three methods for increasing the frost resistance of polymers, i.e.: 1) plastification by which the vitrification temperature can be lowered, 2) modification and 3) copolymerization. The latter two methods, employed to increase frost resistance of crystalline polymers, do not lower the vitrification temperature. Therefore the frost resistance of such polymers, having relatively high vitrification temperature must be increased by adding simultaneously either softeners and modifiers, or the copolymers have to

Card 1/2

S/074/62/031/003/002/002  
B117/B101

Ways of increasing frost...

undergo a plastification process after the copolymerization. Mention is made of: G. M. Bartenev, P. P. Kobeko, A. P. Aleksandrov, Yu. S. Lazurkin, V. A. Kargin, G. L. Slonimskiy, S. N. Zhurkov, S. I. Sokolov, R. I. Fel'dman, P. V. Kozlov, Ye. F. Russkova, Yu. M. Malinskiy, V. A. Voskresenskiy, Sh. L. Lel'chuk, V. I. Sedlis, S. S. Voyutskiy. There are 13 figures, 9 tables, and 78 references: 34 Soviet and 44 non-Soviet. The four most recent references to English-language publications read as follows: P. Swift, Rubb. Journ., 138, 352 (1960); J. I. Cunneen et al., Engl.pat. 24339 (1954); Rub. Chem. a Techn., 23, 39 (1960); W. J. Burke, US pat. 2416434 (1947); Rub. Chem. a. Techn. 23, 39 (1960); L. W. Richards, US pat. 2420194 (1947); Rub. Chem. a. Techn. 23, 39 (1960). ✓

ASSOCIATION: N.-i. in-t rezinovykh i lateksnykh izdeliy (Scientific Research Institute of Rubber and Latex Products)

Card 2/2

CHERNAYA, V.V.; VOL'CHENKO, R.L.

Methods for increasing frost resistance of polymers. Usp.khim. 31  
no.3:336-350 Mr '62. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh  
izdeliy. (Polymers) (Crystallization)

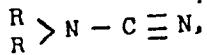
42251

S/138/62/000/011/005/008  
A051/A126

15.9130

AUTHORS: Makarova, I.M., Vol'chenko, R.L., Grinberg, A.Ye., Trofimovich,  
D.P.TITLE: Effect of dialkylcyanamides on the friability temperature of chlo-  
roprene latex films

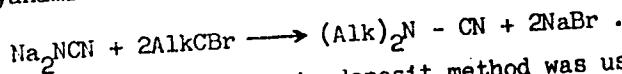
PERIODICAL: Kauchuk i rezina, no. 11, 1962, 22 - 23

TEXT: An attempt was made to find a new masticator for chloroprene latex  
films, which would reduce to a greater degree the friability temperature, and to  
a lesser degree the tensile properties of the articles. The most effective  
synthesized masticator was found to be the dialkylcyanamide compound:where R are the alkyls with various numbers of carbon atoms. The Vliet method  
was used for synthesizing the latter from alkyl halide and sodium cyanamide.  
The reaction is expressed by the following equation:

Card 1/2

S/138/62/000/011/C05/008  
A051/A126

Effect of dialkylcyanamides on the ....



A 45 - 50% yield was obtained. The ionic deposit method was used to prepare films of the synthesized compound. Experiments showed that the dibutyl-diamyl and the dioctylcyanamide n-structure reduce the friability temperature to -60 to -67°C, whereas the dialkylcyanamides of the iso-structure are less effective. The dibutylcyanamide reduces the strength of the films to a lesser extent than does the dibutylsebacinate. There are two tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy  
(Scientific Research Institute of Rubber and Latex Articles)

Card 2/2

MAKAROVA, I.M.; VOL'CHENKO, R.L.; GRINBERG, A.Ye.; TROFIMOVICH, D.P.

Effect of dialkylcyanamides on the brittleness temperature  
of films made with chloroprene latex. Kauch, i rez. 21  
no.11:22-24 N '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut rezinovyki i  
lateksnykh izdeliy.  
(Films (Chemistry)...Testing)  
(Calcium cyanamide)

VOLCHENKO, V.; ZAGAYNOV, N.

Introduced on recommendation by the journal. Zashch. rast. ot  
vred. i bol. 10 no.5:13-14 '65. (MIRA 18:6)

1. Glavnny agronom upravleniya zashchity rasteniy BSSR, Minsk  
(for Volchenko). 2. Glavnny agronom po zashchite rasteniy  
Orichevskogo rayona, Kirovskoy oblasti (for Zagaynov).

ALEKSANDROV, Yu.; PULIPUSHKO, I.; VOLCHENKO, V.; SENDEROV, I.; LIMARENKO, L.;  
YARKOV, G.; YEMTSEV, I.; KUKHAREV, N.; SHCHEKOTOVICH, P.; BOBOVICH, V.;  
CHEREPAKOV, G.

They are raising the level of their qualifications. Zashch.rast.  
ot vred.i bol. 7 no.5:61 My '62. (MIRA 15:11)  
(Plants, Protection of—Study and teaching)

BORISOV, B.K., inzh.; VOLCHENKO, V.N., kand. tekhn. nauk

Automatic control of the argon-arc welding process by standard  
contactless modules. Svar. proizv. no.10:12-14 O '65.  
(MIRA 18:10)

VOLCHENKO, V.V.

Farms are helped by interdistrict units. Zashch. rast. ot  
vred. i bol. 7 no.2:7 F '62. (MIRA 15:12)

1. Obshchestvennyy korrespondent zhurnala "Zashchita  
rasteniy".  
(Mogilev Province--Plants, Protection of)

KAZANOV, A.M., starshiy agronom; VOLCHENKO, V.V.; SKRYNNIK, F.N.

Seminars and conferences. Zashch. rast. ot vred. i bol. 8 no.1:  
59-60 Ja '63. (MIRA 16:5)

1. Direktor Moskovskoy oblastnoy stantsii zashchity rasteniy (for  
Skrynnik). (Plants, Protection of--Congresses)

VOLCHENKO, Yakov Savel'yevich

[New regulation, prices, and conditions of procurement of farm produce] O novom poriadke, tsenakh i usloviakh zagotovok sel'skokhoziaistvennykh produktov. Moskva, Znanie, 1958. 31 p.  
(Farm produce) (MIRA 12:12)

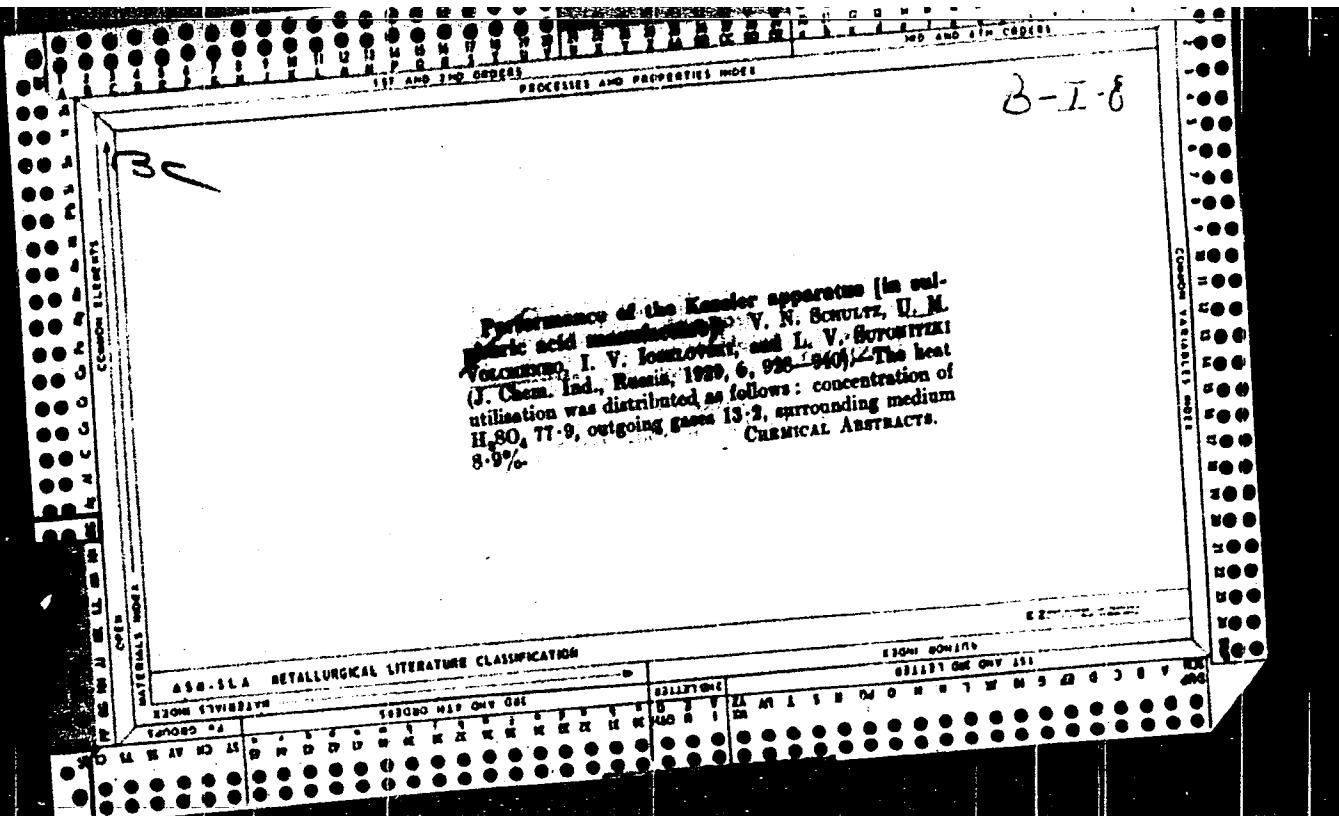
VOLCHENKO, Ye.Ye., dots.

Study of the chemical composition and properties of milk from  
Karakul sheep. Trudy AZVI 10:120-123 '57. (MIRA 12:8)

1. Iz kafedry tekhnologii produktov zhivotnovodstva (zav.  
kafedroy - kand. sel'skokhozyaystvennykh nauk, dots. Ye.Ye.  
Volchenko) Alma-Atinskogo zoovetinstituta.  
(Karakul sheep) (Milk--Composition)

CA  
Performance of the Kessler apparatus. V. N. SAVIL'YEV, U. M. VOLCHYNSKII, I. V. TOSIBLOVSKII AND L. V. SUPONITZKII. *J. Chem. Ind. (Russia)* 6, 123-40 (1920). A careful study was made of material and heat balance in the Kessler app. in the Degtjarev H<sub>2</sub>SO<sub>4</sub> chamber-process plant. The exceptionally high heat efficiency of this particular app. depends in part on the high temp. of gases entering the saturator. Utilization of heat in the Kessler app. was distributed as follows: concen. of H<sub>2</sub>SO<sub>4</sub>, 77.9%; outgoing gases 13.3%; loss to surrounding medium 8.9%. A. C. ZACHARIN

ATA-51A METALLURGICAL LITERATURE CLASSIFICATION



L 3274-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(c) JD/HM

ACC NR: AP5025609

UR/0135/65/000/010/0012/0014  
621.791.75:621.078

73  
B

AUTHOR: Borisov, B. K. (Engineer); Volchenko, V. N. (Candidate of technical sciences)

TITLE: Automatic control of argon-arc welding based on standard contactless modules

SOURCE: Svarochnoye proizvodstvo, no. 10, 1965, 12-14

TOPIC TAGS: argon, arc welding, automatic welding, control system, logic element, welding equipment

ABSTRACT: The authors recommend standard modular elements of welding control systems based on contactless elements -- logic tubes with a TKh8G type cathode. Such standard elements or modules which find application in many welding systems are: memory cells, time relays, arc indicators, power amplifiers, etc. By way of an example, a programmed-control system for single-pass welding is discussed. The sequence of programmed operations in this case is: the starting signal is supplied to the memory cell which, via a power amplifier, triggers the valve admitting argon to the welding zone and, 10 sec later, ignites the arc and triggers the arc indicator. The modules are of a block-shaped design, convenient to assemble and disassemble in accordance with space requirements. These standard modules may be combined into a single so-called universal module which at present is used in experimental welding equipment. The use of contactless elements and the modular principle of assembling

1/2  
Card

L 3274-66

ACC NR: AP5025609

automatic welding systems displays the following advantages: universality, interchangeability, operating reliability and simplicity, low weight, and compactness, and the possibility of further miniaturization in the future. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE EC

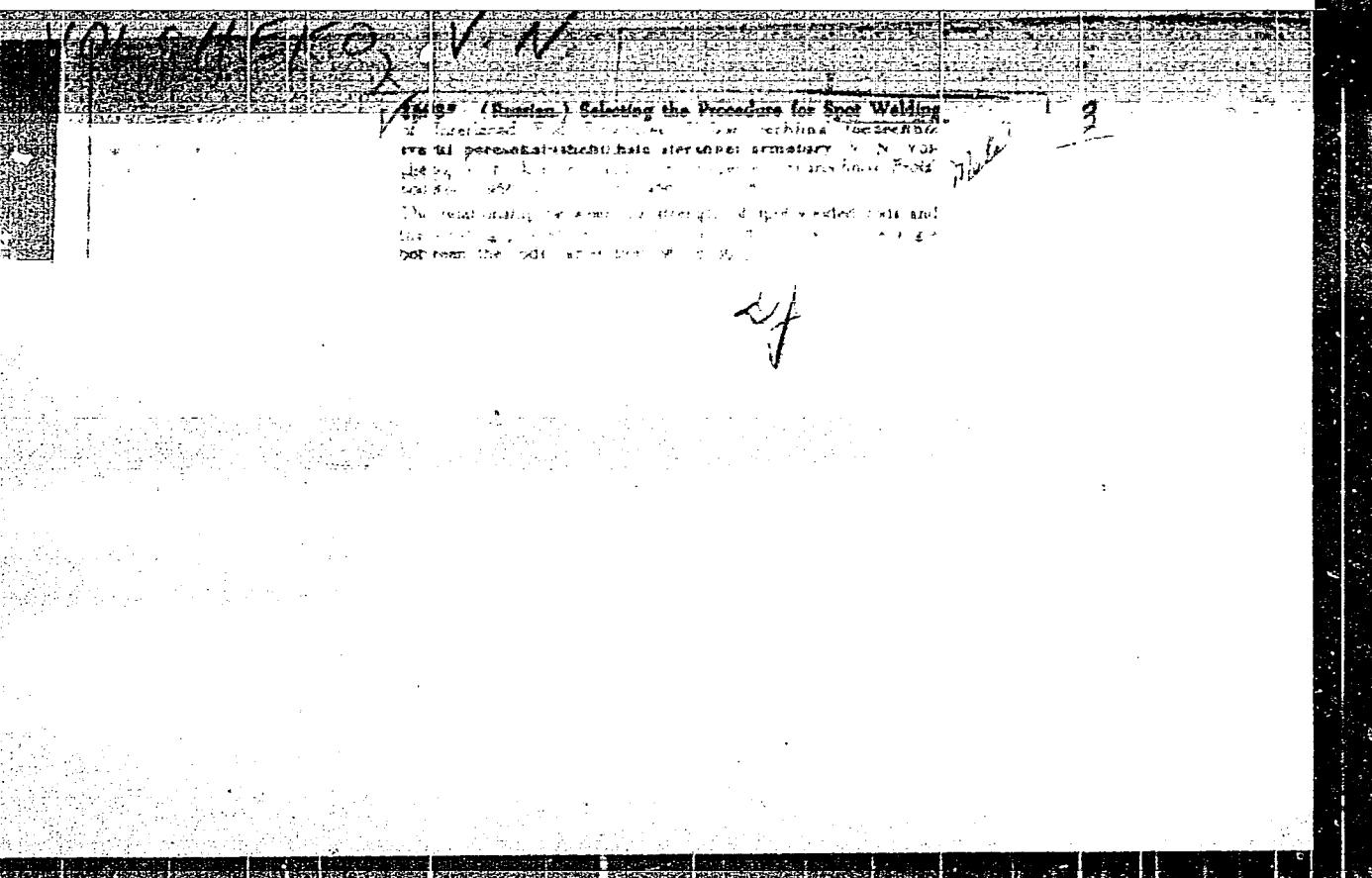
NO REF SOV: 003

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420010-9



APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860420010-9"

SOV/125-58-12-10/17

AUTHOR:

Volchenko, V.N.

TITLE:

Automatic Welding of "1Kh18N9T" Steel Autoclaves in Carbon Dioxide (Avtomlicheskaya svarka v uglekislom gaze avtoklavov iz stali 1Kh18N9T)

PERIODICAL:

Avtomlicheskaya svarka, 1958, Nr 12, pp 76-81 (USSR)

ABSTRACT:

For the production of stainless steel autoclaves, the Zhdanov Machine Building Plant replaced automatic welding with "AN-348" flux by welding in carbon dioxide with the use of the existing equipment, i.e. a welding stand, a rotator and a "TS-17M" type tractor. The method was developed with the participation of students G.S. Totsyn and M.P. Shkredov. The optimum technology for welding longitudinal and angular seams is given. A particular feature of the method in welding thin 1Kh18N9T steel sheets is the low arc voltage (15 - 17 v), reducing the burning through of the metal and eliminating the spattering of metal. The method proved satisfactory from the technical and economic point of view, reducing production costs considerably. There are 3 diagrams, 1 circuit diagram, 1 graph, 2 tables and 5 references, 4 of which are Soviet and 1 English.

Card 1/2

SOV/125-58-12-10/13

Automatic Welding of "1Kh18N9T" Steel Autoclaves in Carbon Dioxide  
ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (The Zhdanov In-  
stitute of Metallurgy)

SUBMITTED: March 5, 1958

Card 2/2

VOLCHENKO, V. N. (Cand. Tech. Sci.)

"Techniques of Selecting Regimes for Spot Welding Reinforcing Rods," p. 133 in book Reports of the Interuniversity Conference on Welding, 1956. Moscow, Mashgiz, 1958, 266pp.

VOLCHENKO, V. N., kandidat tekhnicheskikh nauk; KOSYREV, V. F., inzhener;  
LEVONOV, I. Ye., inzhener.

Selecting conditions for the spot welding of crossing  
reinforcement bars. Svar. proizv. no.10:13-16 G '56. (MIRA 10:2)  
(Electric welding) (Steel, Structural--Welding)

VOLCHENKO, V.N.

Automatic welding in carbon dioxide of 1Kh18N9T steel autoclaves. Avtom.  
svar. 11 no.12:76-81 D '58. (MIRA 12:1)

1. Zhdanovskiy metallurgicheskiy institut.  
(Autoclaves--Welding) (Protective atmospheres)  
(Electric welding--Equipment and supplies)

SUBJECT: USSR/Welding 135-5-11/14

AUTHORS: Volchenko, V.N., Candidate of Technical Sciences, and Shcherban' A.B., Engineer.

TITLE: Torch for Semi-Automatic Welding in Carbon Dioxide. (Gorelka dlya poluavtomaticheskoy svarki v srede uglekislogo gaza).

PERIODICAL: "Svarochnye Proizvodstvo", 1957, # 5, pp 27-28 (USSR).

ABSTRACT: A new water cooled torch was developed by the Zhdanov Metallurgical Institute in co-operation with the plant imeni Il'yich. The torch can be used with the welding machines "ПАШМ -500" or "ПАШ -5". Its constructional features are: a tubular brass housing which is cooled by running water and connected by a nut to a detachable plastic handle. Replacement of casing does not require the removal of the torch, and the operation is done within 4-5 minutes. The end of the housing carries a replaceable gas nozzle made of copper. A push-button at the handle serves for switching on the power. The torch weighs about 500 grams. It has been tested with good results in welding casting defects in steel, and in welding sheet steel.

Card 1/2

TITLE:

Torch for Semi-Automatic Welding in Carbon Dioxide. (Gorelka  
dlya poluavtomaticheskoy svarki v srede uglekislogo gaza).  
The article contains 1 drawing and 2 photographs.

135-5-11/14

ASSOCIATION: Zhdanovskiy Metallurgicheskiy Institut; Zavod imeni IL'YICHA  
(Zhdanov Metallurgical Institute and Plant imeni Il'yicha)

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

VOLCHENKO, V.N.

Plasticity, Creep, Strength

Dissertation: "Strength of Spot-Welded Joints of Rods of Reinforced Concrete." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, 5 Apr 54. (Vechernyaya Moskva, Moscow, 25 Mar 54).

SO: SUM 213, 20 Sep 54

AID P - 5402

• Subject : USSR/Engineering  
Card 1/2 Pub. 107a - 4/12  
Authors : Volchenko, V. N., Kand. of Tech. Sci., V. F. Kosyrev,  
Eng., and I. Ye. Yevgen'yev, Eng.  
Title : Selection of technique in spot welding of reinforcement  
rods.  
Periodical : Svar. proizv., 10, 13-16, 0 1956  
Abstract : The authors describe experiments with spot welding of  
reinforcing rods (the St.3 and St. 5 types, 60 to 80mm  
in diameter) used in reinforced concrete construction by  
500 kva welding machines of the MTP-75, MTP-500 and  
MT-500 type. The experiments were carried out at the  
Central Scientific Research Institute of Industrial Con-  
structions (TsNIPS), at the Moscow Higher Technical  
School im. Bauman (MVTU im. Bauman) and at the Kuybyshev  
Hydroelectric Construction Project (Kuybyshevgidrostroy).

AID P - 5402

Svar. proizv., 10, 13-16, 0 1956

Card 2/2 Pub. 107a - 4/12

The machines were built by the "Elektrik" plant in Leningrad. Six tables, 5 graphs; 4 Russian references (1952-55).

Institutions: As above

Submitted : No date

VOLCHENKO, V.N., IVANOV, V.M.

Automatic welding in carbon dioxide. Med. prom. 12 no.11:41-47  
N '58 (MIRA 11:12)

1. Zhdanovskiy metallurgicheskiy institut i Zhdanovskiy mashino-  
stroitel'nyy zavod.

(ELECTRIC WELDING)  
(CARBON DIOXIDE)

VOLCHENKO V.N.

VOLCHENKO, V.N., kandidat tekhnicheskikh nauk; SHCHERBAN', A.B. inzhener.

Burner for semiautomatic welding in a carbon dioxide atmosphere.  
Svar. proizv. no. 5:27-28 My '57. (MLRA 10:6)  
(Electric welding--Equipment and supplies)  
(Protective atmospheres)

VOLCHENKO, V.N., kandidat tekhnicheskikh nauk.

Strength of spot welds on concrete reinforcements. [Trudy] MVTU  
no.37:33-46 '55. (MLRA 9:6)  
(Reinforced concrete--Welding)(Electric welding--Testing)

ACC NR: AT7007346

(A) SOURCE CODE: UR/0000/66/000/000/0043/0047

AUTHOR: Volchenko, V. N.; Ishchenko, Yu. S.

ORG: None

TITLE: On methods of programmed control for argon-arc welding of nonrotating pipe joints

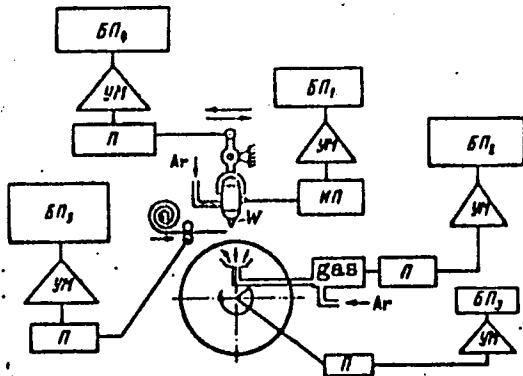
SOURCE: Soveshchaniye po avtomatizatsii protsessov mashinostroyeniya. 4th, 1964.  
Avtomatizatsiya protsessov svarki i obrabotki davleniyem (Automation of welding and pressure treatment processes); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1966, 43-47

TOPIC TAGS: industrial automation, argon, inert gas welding, automatic control equipment, welding technology, automatic welding

ABSTRACT: The authors discuss various methods of programmed control applicable to argon-arc welding with a tungsten electrode for joining nonrotating sections of pipe. A simple program includes blowing argon into the joint for a given length of time, switching on the oscillator and striking the main arc for localized heating of the joint, switching on the drive motor for rotating the machine and making the working section of the seam with welding current and speed held constant, overlapping the ends of the seam and a final blast of argon. The problem of compensation for temperature distribution is discussed. A generalized block diagram for possible methods of programmed control of argon-arc welding is shown in the accompanying figure. Orig. art. has: 4 figures, 6 formulas.

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БП—programming units; БП<sub>1</sub>—for welding current; БП<sub>2</sub>—for pressure in the welding zone; БП<sub>3</sub>—for welding speed; БП<sub>4</sub>—for moving the arc; БП<sub>5</sub>—for feeding the welding wire; УМ—power amplifiers; П—drive; ИП—power supply for the arc

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 002

Card 2/2

VOLCHENKO, V.V.

In White Russia. Zashch. rast. ot vred. i bol. '64. no. 4:57-58  
(MIRA 17:5)

1. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy  
ot vrediteley i bolezney".

VOLCHENKO, V.V.

Plant protector. Zashch. rast. ot vred. i bol. 9 no. 8:10-11 '64.  
(MIRA 17:12)

1. Glavnyy agronom upravleniya zashchity rasteniy Ministerstva  
proizvodstva i zagotovok sel'skokhozyaystvennykh produktov BSSR.

MAKOGON, Ya.Ye., master-sadovod; VOLCHENKO, V.V.

Letters to the editor. Zashch. rast. ot vred. i bol. 9 no.3:  
13 '64. (MIRA 17:4)

1. Yasinovatskaya distantsiya zashchitnykh lesonasazhdennyi  
Donetskoy zheleznoy dorogi (for Makogon).

VOLCHENKO, V.V.

Reserve workers for plant protection in White Russia. Zashch.  
rast. ot vred. i bol. 8 no.5:11 My '63. (MIRA 16:9)  
1. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy ot  
vreditelye i bolezney".  
(White Russia--Plants, Protection of)

VOLCHENKO, V.V.; MAKSYUTA, I.M.

Contribution by the machine operators of interdistrict units.  
Zashch.rast.ot verd.i bol. 7 no.4r7-8 Ap '62. (MIRA 15:12)

1. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy"  
(for Volchenko). 2. Nachal'nik Baranovichskogo otryada po bor'be  
s vreditelyami i boleznyami rasteniy (for Maksyuta).  
(White Russia—Spraying and dusting equipment)

VOLCHENKO, V.V.

Improve the quality of aerosol generators. Zashch. rast. ot vred.  
i bol. 3 no.1:54 Ja-F '58. (MIRA 11:3)

1. Tekhnicheskoy ekspeditsii.  
(Aerosols)

ARTEM'YEV, Ye.A.; VOLCHENKO, V.V.; NOZDRINA, M.S.; BRUNNER, Yu.N., dotsent;  
MILLERUK, G.Ya.

Readers' letters. Zashch. rast. ot vred. i bol. 8 no.2:14-15  
(MIRA 16:7)  
F '63.

1. Agronom po zashchite rasteniy Krasnosel'skogo rayona Kostromskoy oblasti (for Artem'yev).
2. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy ot vrediteley i bolezney" (for Volchenko).
3. Agronom po zashchite rasteniy Khar'kovskogo rayona (for Nozdrina).
4. Poltavskiy sel'skokhozyaystvennyy institut (for Brunner).
5. Zamestitel' predsedatelya Soveta rayonnogo otdeleniya Obshchestva okhrany prirody, Cherkasskaya obl. (for Milleruk).  
(Plants, Protection of)

30889. VOLCHENKO, Ya.

Bystreye zavershit' vypolneniye gosudarstvennogo plana khlecozagotovok!  
Zagotovki s.-kh. produktov, 1949, No. 1, s. 9-14.

VOLCHENKO -P.

USSR / Farm Animals. Small Horned Stock.

Q-2

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105658.

Author : Volchanko, Ya.

Inst : Kirgiz Scientific Research Institute of Animal Husbandry and Veterinary Medicine.

Title : A New Fine-Wool Kirgiz Breed of Sheep (An Order of the Ministry of Agriculture USSR, of 10 October 1956, No 406).

Orig Pub: Byul. nauchno-tekhn. inform. Kirg. n.-i. in-t zhivotnovodstva i vet., 1956, No 1-2, 6.

Abstract: No abstract.

VOLCHENKOV, A-I.

PHASE I BOOK EXPLOITATION SOV/3673

Vedeneyev, Nikolay Petrovich, Aleksandr Ivanovich Volchenkov, and  
Vasiliy Dmitrievich Korsakov

Vyrubnyye shtampy, armirovannyye tverdym splavom, i tekhnologiya ikh  
izgotovleniya (Manufacture of Sintered-Carbide Blanking Dies)  
Leningrad, 1958. 67 p. (Series: Informatsionno-tehnicheskiy listok,  
no. 28-31, Elektricheskiye metody obrabotki materialov) 6,200 copies  
printed.

Sponsoring Agencies: Leningrad. Dom nauchno-tehnicheskoy propagandy and  
Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanii RSFSR.

Ed.: Sh. D. Achkinadze, Engineer; Tech. Ed.: V. L. Gvirts.

PURPOSE: This booklet is intended for metal-cutting machine-tool operators,  
tool- and die-makers, and mechanical engineers and designers.

COVERAGE: The book deals with the use of carbide inserts in blanking dies.  
Increases in wear resistance and die life made possible by the use of  
such inserts are discussed. Manufacturing techniques and special methods  
of die construction are presented. A description is given of the use of  
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